

Week 22: Introductory Problems

(Solution to triangles)

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1. Angles of a triangle are in ratio $1:2:7$. Find the ratio of the greatest side to the smallest side.
 2. In $\triangle ABC$, BD is the median with $\frac{|BD|}{|AB|} = \frac{\sqrt{3}}{4}$ and $\angle DBC = 90^\circ$. Find $\angle ABD$
 3. Lengths of the side of a triangle are $11, 12, 13$. Find the length of the median drawn to the largest side.
 4. An isosceles triangle has vertex angle A and area Δ . Find a in terms of A and Δ .
 5. In a right angled triangle, the median of the acute angles are $\sqrt{56}$ and $\sqrt{89}$. Find the length of the hypotenuse.
 6. Find one of the angles between the diagonals of a rectangle whose perimeter is p and area is $\frac{p^2}{16}$.